PPA001 PORTABLE DIGITAL RADIO (DAB/DAB+)User Manual

Quick Start Guide

Press the **Power Button** for more than 3 seconds to turn on the radio. The yellow power indicator illuminates and start-up screen will appear.

DAB Radio

The radio can search for local DAB, DAB+ radio stations; if enter into the DAB mode for the first time, it will be access to automatic search interface after the start-up screen, and it will be access to <Station List> interface after the search is finished, which will display all of the radio stations be searched, and broadcast the first radio station automatically.

FM Radio

FM radio with RDS function, you can use it to listen to local FM radio stations.

Press the **Power Button** once or access to the <Main Menu> and then switch to FM mode.

Press the **Back Button** to access to the FM Main Menu.

Use the **Control Wheel** to navigate to <Auto Program> and then press **Enter Button**.

Previously stored radio stations will be updated automatically by the new stations be searched.

MP3

Songs can be stored into Flash or MicroSD card; the radio can play MP3 music stored in Flash and MicroSD card fluently. At the same time, it can set the play mode, play lists and equalizer.

Clock & Alarm

You can manually adjust the clock or use DAB and FM to synchronize clock.
You can set either a DAB or FM broadcast radio as alarm, when the alarm sounds, the radio will play preset radio station automatically.

Recording Function

During broadcasting DAB or FM Stations, it can be access to record as your requirement. You can choose Flash or MicroSD card as stored path to record.

User Manual

User Manual

Brief Introduction 7

Packaging and Specifications 8

Packaging....8
Specifications....8
DAB Function....8
FM Function....9
MP3....9
Time and Alarm....10
Battery....10
Device....10

Button Instruction 11

Display Types 12

Broadcasting Screen....12
Menu Screen....12
Information Screen....13
Query Screen....14

Main Menu 14

Main Menu Structure....14
Mode Switching....15

DAB Menu 17
Preset List....17
Station List....17
Local Scan....17
Manual Tune....18
Region....19
DRC....19
Record....19
Sort....19
System Setup....20
Main Menu....20

DAB Mode Operation 20
Basic Operation....20
Power On DAB for the First Time....20
Power On DAB Next Time....20
Select Stations....20
Play Stations....21
Store Stations....21
Recall Preset....21
Display Station Information....21

FM Radio Menu Introduction and Operation 22
Preset List....22
Channel List....22
Seek Mode....23
Tune Mode....23
Auto Program....23
Clear All Station....24
Region....25
Scan Setting....25
Audio Setting....25
Record....26
System Setup....27
Main Menu....27

MP3 27
Flash....27
MicroSD Card....27
Audio Setting....28
Play Mode....28
Play Range....28
EQ....29

System Setup..... 29
Main Menu..... 30
MP3 User interface for display..... 30
Download the files from PC..... 30
Line in..... 30
System Setup Menu Introduction and Operation 31
Set Power Off Time..... 32
Time Setup..... 32
Display Time & Date..... 32
Set Time & Date..... 33
Alarm..... 33
Brightness..... 35
Backlight TimeOut..... 35
Reset All..... 35
Info..... 35
Charging the Device 36
Safety Warning 36

Brief Introduction

Full-Join PPA001 is a digital multimedia products with DAB, DAB+, FM, MP3, alarm clock functions.

DAB is the abbreviation of Digital Audio Broadcasting, it is the third-generation broadcasting after the AM, FM traditional analogue broadcasting; this new transmission system with great anti-interference performance, it can eliminate noise and distortion in the process of signal transmission, while the transmission errors can also be amended, which leads it to provide CD-quality stereo.

DAB+ is the updated version of the DAB standard series, which is used in many countries such as Europe, Canada, China, South Korea. DAB+ standard is based on HE-AACv2. Compared with DAB technology used in MPEG Audio Layer II, HE-AACv2 can provide homogeneous or much better sound at a lower bit rate.

As DAB Radio isn't widespread currently, and taking the existing few radio models into consideration, PPA001 keeps the FM function.

In MP3 mode, it can play the music stored in Flash and MicroSD card.

For Clock & Alarm: You can set either a DAB or FM broadcast radio as alarm, when the alarm sounds, the radio will play the preset radio station automatically.

Packaging and Specifications

Packaging

Thank you for choosing our DAB radio, please check the accessories in the box according to the list as below. If there is anything shortage, please contact you retailer.

1. DAB radio 1 pc
2. USB cable 1 pc
3. User Manual 1 pc
4. Adapter (optional) 1 pc

Specifications

DAB Function

- This DAB radio can receive and play all the Band III radio stations under DAB standard, and the frequency range of DAB band III is 174MHz~240MHz.
- Support region setting, the device will search the radio stations when the user set up the default region.
- Support local searching.
- Support searching by preferred frequency channel.
- Support DRC function.
- Support DLS function.
- Support recording function, and the default recording format is MP2 when it is in DAB status. The default recording format is AAC when it is in DAB+ status. The capacity is up to the capacity of Flash or MicroSD card.
- Support preset function, and the maximum is 30 radio stations in preset.

FM Function

- Also you can use this device to receive and play FM radio stations, and the frequency range is 87.5MHz~108MHz, the frequency interval is 50KHz.
- Support searching and playing radio stations with strong signal only.
- Support playing the radio stations only in Mono mode.
- Support searching and conserving the radio stations automatically, the maximum is 30 radio stations in Channel List.
- Support preset function, the maximum is 30 radio stations.
- Support tune and seek mode.
- Support recording function. And the default recording format is MP3, and the capacity is up to the capacity of Flash or MicroSD card.
- Support clearing all the conserved radio station list, including the preset list and the channel list.
- Support RDS (PTY, PS, RT, CT).

MP3

- This device can support playing music file from MicroSD card or Flash memory.
- Playing mode can support the function for one time, repeat or shuffle function.
- Playing range can be single file, directory or all the files.

Fujion

• Support equalizer function.

• Support play, pause, next, previous function.

Time and Alarm

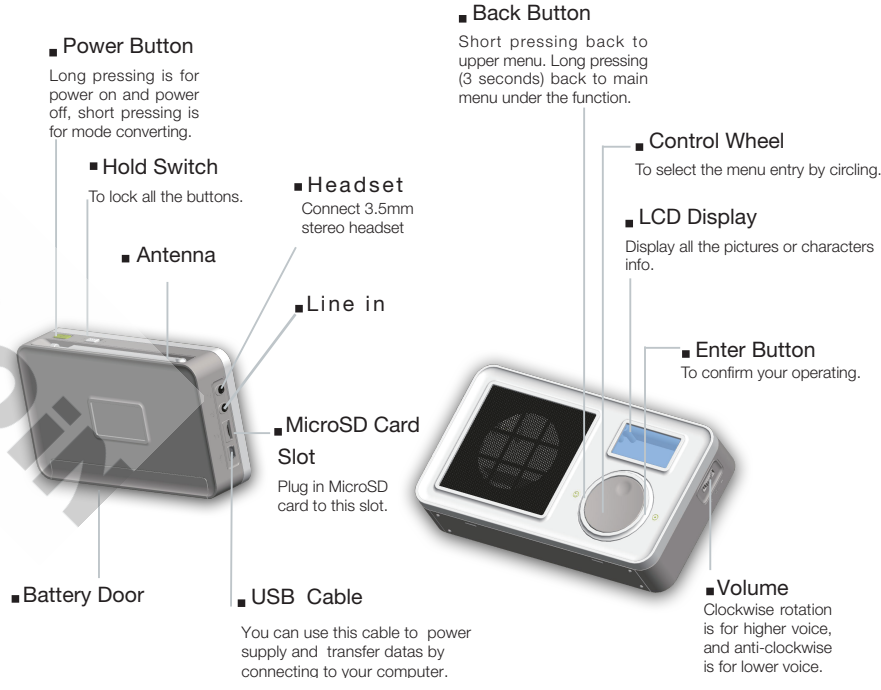
• The time can be set up manually or synchronous with DAB or FM.

• Alarm will start with a radio station, user can set up to play a DAB or FM radio station on the alarming time, and the device can turn on automatically and play the preset radio station.

Device

1. Built in speaker: 2 W.
2. 3.5mm stereo headphone socket.
3. Line in
4. Support 3 cell AA batteries
5. Dimension: 150mm*85mm*30mm (H*W*D).
6. Weight: 179 grams.

Button Instruction


Power Button
Long pressing is for power on and power off, short pressing is for mode converting.
Hold Switch
To lock all the buttons.
Antenna
Headset
Connect 3.5mm stereo headset
Line in
MicroSD Card Slot
Plug in MicroSD card to this slot.
Battery Door
USB Cable
You can use this cable to power supply and transfer datas by connecting to your computer.
Back Button
Short pressing back to upper menu. Long pressing (3 seconds) back to main menu under the function.
Control Wheel
To select the menu entry by circling.
LCD Display
Display all the pictures or characters info.
Enter Button
To confirm your operating.
Volume
Clockwise rotation is for higher voice, and anti-clockwise is for lower voice.

Display Types

Broadcasting Screen

There are three modes: DAB, FM, and MP3.

: Display the current electricity directives.

: Display the current volume.

: It will appear after the alarm is set.

11:01: Display the current time.

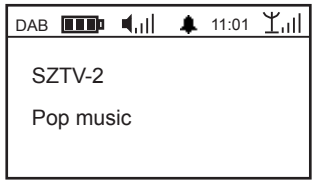
: Display the signal strength.

SZTV-2: Display a station name.

Pop music: DLS info (not all stations with DLS info).

In the DAB or FM mode, short pressing **Enter Button**, the radio information will be displayed on the screen. (Note: only if FM stations with RDS, the information can be displayed on the screen.)

Example as below:

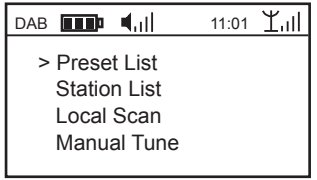


Menu Screen

A menu screen displays four options, with the currently selected option shows ">". If more than four options are available, turn the **Control Wheel** up and down to select it.

Note: Under DAB mode, FM mode or MP3 mode, it is with <System Setup> and <Main Menu>, you can make system settings by access to <System Setup> menu or select modes by access to <Main Menu>.

Example as below:



Information Screen

Information screens are used to display messages to the user. Then time is out after one second.

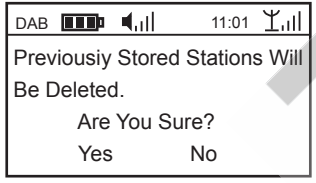
Example as below:

Fujion

Query Screen

A query screen is used to offer the user a choice. Queries are worded so that you can respond with a “Yes” (**Press Enter Button**) or a “No” (**Press Back Button**).

Example Query Screen:



Main Menu

Main Menu Structure

- DAB
- FM
- MP3
- System Setup

When power on the radio for the first time, it will show the <Main Menu> after start-up screen, there are <DAB>, <FM>, <MP3>, and <System Setup> for you choice, users can select <DAB>, <FM> or < MP3> to access to appropriate mode.

Power on: Press the **Power Button** for more than 3 seconds to turn on the radio.

Power off: Press the **Power Button** for more than 3 seconds to turn off the radio.

When power on the radio for the first time, it will show the <Main Menu> after start-up screen, users can select <DAB>, <FM> or <MP3> to access to appropriate mode. And can also select <System Setup> to set system parameters. Please refer to the <System Menu> to get to know how to set the system parameters.

(1) If select the DAB mode, system will play the station that broadcasted last time automatically. If power on for the first time, it will search for DAB stations automatically, when the search is finished, the system will store the information of DAB stations and display the number of received stations. It will play the first station be searched.

(2) If select the FM mode, system will be access to FM interface automatically, and will play the frequency be listened last time. If power on for the first time, the default frequency is 87.5MHz.

(3) If select the MP3 mode, system will display the MP3 menu.

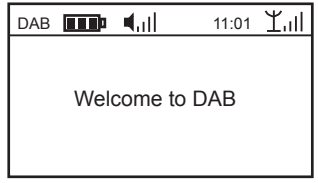
Mode Switching

Under any menu, short pressing the **Power Button**, it can switch among DAB, FM and MP3 modes.

Each mode with welcome interface, which will last for 1 second. As shown below:

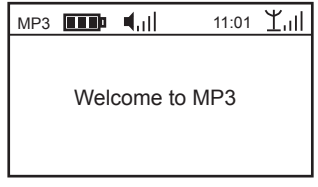
Access to DAB mode:

Fujion



Access to FM mode:

Access to MP3 mode:



DAB Menu

DAB Menu structure

- Preset List
- Station List
- Local Scan
- Manual Tune
- Region
- DRC
- Record
- Sort
- System Setup
- Main Menu

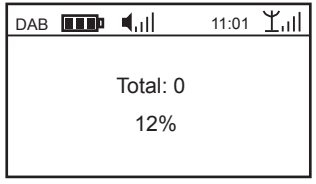
Preset List

Display a list of preset stations. The preset stations are stored in the memory of the DAB radio. 30 preset radio stations can be stored at most.

Station List

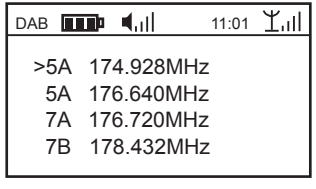
Display a list of received stations, which are stored in the memory of the DAB radio. 500 radio stations can be stored at most.

Local Scan



Search for local stations, select the menu <Local Scan>, the radio will search for radio stations automatically and display the search progress, when the search is finished, the radio will store the information of DAB stations, and display the number of radio stations be searched. And it will play the first station be searched.

Manual Tune



Select a frequency under <Manual Tune>, press the **Enter Button** to access to manually search for radio stations.

Change a frequency every time, the radio will search for all stations within this frequency, the process will take about a few seconds, when the search is finished, the screen will display the number of radio stations be searched and it will play the first station be searched automatically. If no station be searched, it will display “0”. When search finished, it will be access to broadcast interface.

Region

You can select a appropriate region, the regions are: China, Korea, Europe, UK

Different regions with the corresponding frequency range:

- China Band: 7A-11D 176.720**MHz** - 213.856**MHz**
- Korea Band: 7A-13C 175.280**MHz** - 214.736**MHz**
- Europe Band: 5A-13F 174.928**MHz** - 239.200**MHz**
- UK Band: 11B-12D 218.640**MHz** - 229.072**MHz**

DRC

According to requirement, you can set the DRC to three states: high, low, and off.

Record

In the DAB mode, you can record your favorite programs; It can be stored in the Flash or MicroSD card.

In the DAB mode, select the <Record> menu; It will appear storage path interface, select a desired storage path. It will be access to the preparing interface for record, press the **Enter Button** to start to record. During the recording, it will pause recording if press the **Enter Button**, and it can stop recording if press the **Back Button**. If you stop recording and press the **Enter Button**, it will start a new recording.

Sort

Fujion

The stations stored in the <Station List> can be sorted, there are two sorts:

The first one is according to the frequency; The second one is according to the radio station names in alphabetical.

System Setup

Please refer to <System Setup Menu Introduction and Operation> from page 31 to page 35.

Main Menu

Please refer to <Main Menu Introduction> from page 14 to page 16.

DAB Mode Operation

Basic Operation

Power On DAB for the First Time

When use the DAB mode for the first time, it will be access to auto-search interface, when the search is finished, it will be access to <Station List> interface, which will display all of the stations be searched. It will play the first station be searched automatically, and the system will store all of the stations be searched.

Power On DAB Next Time

When power on the DAB next time, it will play the last station that be broadcasted last time automatically.

Select Stations

Turn the **Control Wheel** in broadcast interface or Select <Station List> in the DAB menu to access to <Station List> menu; You can press the **Enter Button** to select the radio stations you desired.

Play Stations

Press the **Back Button** to DAB menu, turn the **Control Wheel** and press the **Enter Button** to highlight <Preset List> or <Station List>, select the stations you desired and press the **Enter Button** to play it.

Store Stations

In broadcasting interface, press the **Enter Button** for more than 3 seconds, it will display <Save Preset> menu, select any position under this menu and press the **Enter Button**, if the screen display “Preset Saved”, it means the station has been stored into <Preset List> menu.

Recall Preset

Select <Preset List> in DAB menu, it will display “Preset List Stations”, select the station you desired and press the **Enter Button** to play it.

Display Station Information

DAB radio loads a lot of digital information, in the DAB broadcast interface, short pressing **Enter Button** to get corresponding information such as “Ensemble Label”, “Ensemble Num”, “Channels Mode”, “Bit Rate”.

Fujion

FM Radio Menu Introduction and Operation

FM Radio Menu Structure:

- Preset List
- Channel List
- Seek Mode
- Tune Mode
- Auto Program
- Clear All List
- Region
- Scan Setting
- Audio Setting
- Record
- System Setup
- Main Menu

Preset List

Display a series of preset stations. The preset stations are stored in the memory of the DAB radio. Up to 30 preset stations can be stored within the radio.

Channel List

“Channel List” is mainly an automatic station search list for <Auto Program>.

The channel list will be updated each time you select <Auto Program>.

Auto program searched stations will be stored in the memory of the DAB radio, it can be stored up to 30 stations.

The user can select a station from the list.

Seek Mode

Press **Back Button** go back to main menu, select <Seek Mode> and press the **Enter Button**, it will search the stations automatically.

Turn the **Control Wheel** to search for FM stations automatically.

Turn the **Control Wheel** clockwise to seek in a frequency increasing direction and anti-clockwise to seek in a frequency decreasing direction.

When the search function finds a radio station, it will stop and broadcast automatically.

Tune Mode

During normal radio playing, press the **Back Button** to enter the FM main menu.

Turn the Control **Wheel** to <Tune mode>, press the **Enter Button** to enter <Tune Mode> for manual turning thereafter.

Turn the **Control Wheel** and the frequency will change by rate of 0.05MHz per step.

Clockwise means the frequency increases, anticlockwise means the frequency decreases.

Turn the **Control Wheel** to locate the radio stations that you desired.

Auto Program

In the FM menu interface, turn the **Control Wheel** to <Auto Program> and press the

Enter Button to enter Auto Program Mode.

The system will search the stations between 87.50MHz~108.00MHz automatically and will show the frequency.

At the same time, it will store the received stations in the Channel List. (30 stations at most)

After search is finished, it will automatically revert to the Channel List.

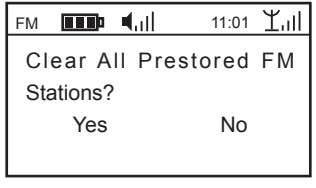
The Channel List will show the received stations, any previously stored stations will be replaced.

Clear All Station

To access the <Clear All List> menu during playing interface, press the Back Button to FM main menu, and turn the Control Wheel to <Clear All List> and press the Enter Button to enter the <Clear All List> menu.

In the <Clear All List> menu, you can delete all the stations in the Preset List and Channel List.

Once selected, the screen promptly appears to confirm this action, as below:



If you confirm and press the Enter Button, the radio will clear all the stored stations in the Preset List and Channel List and confirm with “Clear All”, later the system will go back to the playing interface.

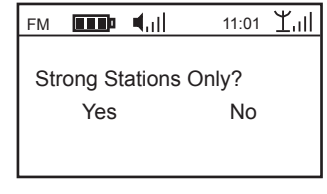
Region

In the playing interface, press the Back Button to enter the FM main menu, turn and press the Control Wheel to <Region>, you can select the corresponding region according to your location.The Region contains: <U.S.A>, <Europe>, <Japan>; Press Enter Button to save them and go back to FM main menu.

Scan Setting

In the playing interface, press Back Button and enter the FM main menu, turn the Control Wheel to <Scan Setting> and press the Enter Button, the interface will show “Strong Stations Only”? Press Enter Button, it will be set to search Strong Stations Only and return to the FM main menu.

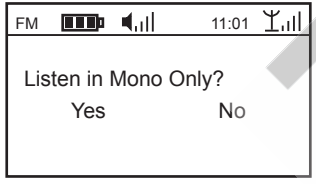
Press Back Button, it will not do the settings and return to the FM main menu.



Audio Setting

In the playing interface, press **Back Button** and enter the FM main menu, turn **Control Wheel** to <Audio Setting> and press the **Enter Button**, the interface will show “Listen in Mono Only”? Press **Enter Button**, it will be set to Listen in Mono only and return to the FM main menu.

Press **Back Button**, it will logout Mono Setting and return to the FM main menu.



Record

When listening to the FM radio, you can record your favorite stations.

The recorded stations you can choose to store in the Flash or MicroSD card.

In the playing interface, press **Back Button** and enter the FM main menu, turn **Control Wheel** to <Record> and press the **Enter Button**, it will enter Record interface. It will appear storage path interface, select a desired storage path. Press **Enter Button** and begin to record.

During record, you can press **Enter Button** to pause the record, or press **Back Button** to stop the record.

When stop record, you can press **Enter Button** to begin a new record, press **Back Button** and exit the record interface.

System Setup

Please refer to <System Setup Menu Introduction and Operation> from page 31 to page 35.

Main Menu

Please refer to <Main Menu Introduction> from page 14 to page 16.

MP3

MP3 Menu Structure:

- Flash
- MicroSD Card
- Audio Setting
- System Setup
- Main Menu

Flash

In the MP3 main menu, turn **Control Wheel** to <Flash>, press **Enter Button** to view Flash display and the audio files in Flash.

If there isn't any audio file or directory, it will display “NO FILE”;

If there is an audio file, press the **Enter Button** to play.

MicroSD Card

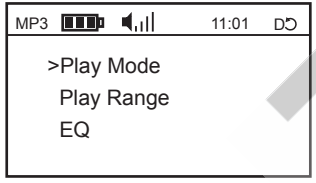
Fujion

In the MP3 main menu, turn **Control Wheel** to <MicroSD Card>, press **Enter Button** to view MicroSD card display and the audio files in MicroSD card.

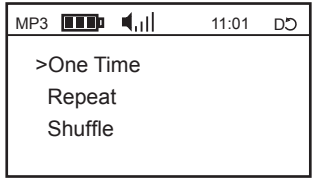
If there isn't any audio file or directory, it will display “NO FILE”;

If there is an audio file, press the **Enter Button** to play.

Audio Setting



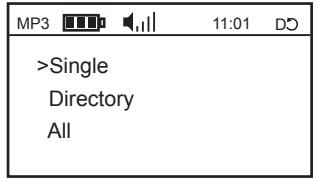
Play Mode



Turn **Control Wheel** to <Play Mode> and press the **Enter Button**, it will set the play mode as <One Time>, <Repeat>, <Shuffle>;

Turn **Control Wheel** to select any one of the three modes, press **Enter Button** to save them and return to <Play Mode>.

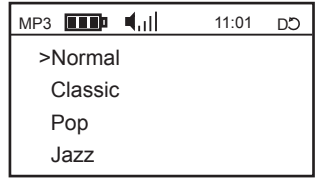
Play Range



Turn **Control Wheel** to <Play Range> and press the **Enter Button**, it will set the play range as <Single>, <Directory>, <All>.

Turn **Control Wheel** to select any one of the three modes, press **Enter Button** to save them and return to <Play Range>.

EQ



Turn **Control Wheel** to <EQ>, it will set the equalizer as <Normal>, <Classic>, <Pop>, <Jazz>, <Bass>, <Rock>;

Turn **Control Wheel** to select any one of the six types, press **Enter Button** to save them and return to <EQ>.

System Setup

Fujioin

Please refer to <System Setup Menu Introduction and Operation> from page 31 to page 35.

Main Menu

Please refer to <Main Menu Introduction> from page 14 to page 16.

MP3 User interface for display

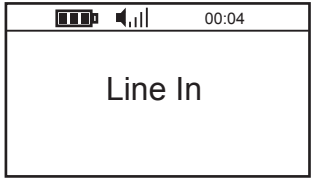
MP3 Playing Interface

In this interface, turn **Control Wheel** to select the previous or the next;

Short pressing **Enter Button** to pause or play.

Line in

External sound source can be played by the speaker of the device, after plug into the "line in", the screen will be shown as below:

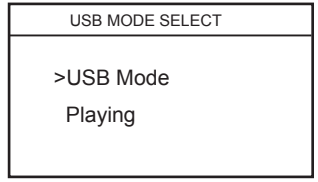


Under the interface, other buttons won't operate except the button of "power".

Download files from PC

It can download files from PC to device.

When the device is power on, it will show the notice when it is connected with the PC by USB cable.



"USB Storage" shown in the interface on the display when you choose <USB Mode>. You may copy the songs into the device and play in the mode of MP3, the previous mode will be shown when the USB cable is plug out.

When you choose <Charging & Playing Mode>, the interface of <USB MODE SELECT> will be logout, and back to the previous mode.

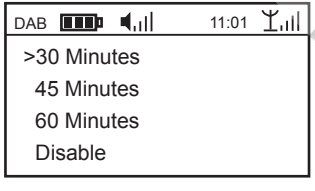
System Setup Menu Introduction and Operation

System Setup Menu Structure:

- Set Power Off Time
- Timer Setup
- Alarm
- Brightness
- Backlight TimeOut
- Reset All
- Info

Set Power Off Time

You can set Power Off Time automatically, it can be set as 60minutes, 45minutes, 30minutes, as shown in illustration.



The unit will Power Off after the selected time interval passed automatically.

Time Setup

Display Time & Date

This menu can display current date, time, week.

Set Time & Date

- Time Sync

The time can be synchronized by DAB or FM. In DAB or FM mode, select this menu will automatically update the current display time.

- Manual Set

This menu can manually adjust the current time.

The method is to turn **Control Wheel** to adjust the number of the currently flickering item to set the time.

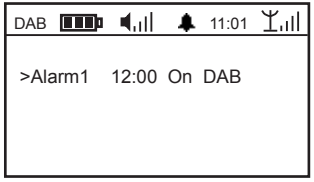
Press **Enter Button** to skip to the next one, the next one will be flashing. Adjust it in sequence.

When you reach the display of “week”, press **Enter Button**, it will save the settings and change the current display time.

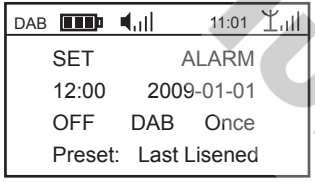
Press Back Button and go back to the previous menu.

Alarm

This device provides one alarm clock, the users can set the alarm, the alarm also works even when the unit is power off. It will automatically alarm when it reaches the setting time. It is shown as below:



Press **Enter Button** to enter the followings interface:



In the Alarm Setting interface, turn the **Control Wheel** left or right to increase or decrease the value of the flashing item; Press **Enter Button** to switch from front to back, when reach "Preset", It will show Preset List interface, select any item of the Preset List, the radio will save this alarm setting and return to Time Setup interface.

Short pressing **Back Button**, it will switch from back to front; Long pressing **Back Button** will automatically exit this interface.

According to the above method to adjust the alarm time, select the alarm mode and radio station which is used as the alarm.

If the alarm time arrived, the radio will automatically turn on and play the alarm radio, it will display the " " symbol. After 30 minutes, it will stop flashing.

Brightness

Select <Brightness> menu, you can set the current backlight brightness, brightness values can be adjusted by **Enter Button**.

When select the appropriate brightness, short pressing **Enter Button** to save the current setting.

Long pressing **Back Button**, it will not save this setting.

Backlight TimeOut

Select the <Backlight TimeOut> menu; Turn the **Control Wheel** to select the time you want, short pressing **Enter Button** to save the current setting. Long pressing **Back Button**, it will not save this setting.

Reset All

Select <Reset All> menu, it will ask if you want to continue to reset to the factory default settings. Short pressing **Enter Button** will reset the device to the factory setting, the interface displays <System Restart>, later the device will reboot automatically.

After the system reset, the stored DAB, FM stations and DAB radio information will be lost.

Info

Select <Info> menu, it will enter the machine version interface, press any key, it will exit.

Fujion

Safety Warning

Please read before usage

1. If this DAB radio has been moved from a cold place to a warm place, do not turn on the radio for 2-3 hours. (E.g. from a cold car boot to a warm room)
There is a possibility that excessive moisture may damage the DAB radio, in order to avoid damage, please place at room temperature for 2-3 hours before use.

2. Do not remove any fixed covers as this may expose dangerous voltages.

3. Never use your DAB radio if it is damaged in any way. Always place your DAB radio on a flat level surface avoiding anywhere which may be subject to strong vibration.

4. Avoid extremes of temperature, either hot or cold, place your DAB radio well away from heat sources such as radiators or gas / electronic.

5. Don't allow your DAB radio to be exposed to rain, moisture or dust. If any liquid is split into your DAB radio, it can cause serious damage.

If you spill any liquid into your DAB radio, please power off the unit immediately.

6. Caution: Don't open any covers and don't repair by yourself.
Qualified personnel must carry out repair work.

7. Usage of headset or earphones with maximum volume for a long period of time may cause hearing loss due to excessive sound pressures.